

PSG COLLEGE OF ARTS & SCIENCE
(AUTONOMOUS)

MSc DEGREE EXAMINATION MAY 2023
(Fourth Semester)

Branch – ZOOLOGY

APICULTURE

Time: Three Hours

Maximum: 50 Marks

SECTION-A (5 Marks)

Answer ALL questions

ALL questions carry EQUAL marks

(5 x 1 = 5)

1. Which Indian honey bees is considered to be largest bee?
(i) *Apis dorsata* (ii) *Apis florea*
(iii) *Apis indica* (iv) *Apis mellifera*
2. Find out a suitable answer for statement: It is a thin sheet of bee wax embossed with a pattern of hexagons of size equal to the base of natural brood cells on both sides.
(i) Swarm trap (ii) Comb foundation sheet
(iii) drone trap (iv) Dummy division board
3. Plants that yield pollen and nectar are collectively called
(i) bee pasturage or bee forage (ii) bee feed
(iii) bee food (iv) bee fodder
4. Genus *Vespa* represents -----
(i) ant (ii) wasp
(iii) lice (iv) beetle
5. Bee venom contains one of the following enzymes.
(i) phospholipase-A (ii) amylase
(iii) lipase (iv) nuclease

SECTION - B (15 Marks)

Answer ALL Questions

ALL Questions Carry EQUAL Marks

(5 x 3 = 15)

6. a. Discuss the structure and functions of drone bee.
OR
b. Recollect your idea about structure and functions of queen bee.
7. a. Explain the social life of honey bee.
OR
b. Comment on pollen trap and swarm trap.
8. a. List out criterion to be considered for selection of site for Apiary and its management practices.
OR
b. Discuss about maintenance of beehive during dearth period.
9. a. Describe about maintenance of beehive during summer season.
OR
b. Describe about maintenance of beehive during winter season.

Cont...

10. a. Enlist the different chemical properties of honey.
OR
b. Describe the different characteristics and uses of bee wax.

SECTION -C (30 Marks)

Answer ALL questions

ALL questions carry EQUAL Marks

(5 x 6 = 30)

11. a. Trace out different types of honey bees.
OR
b. Analyze the development of honey bee.
12. a. Discuss about various parts of Newton's bee hive.
OR
b. Summarize any five appliances used in beekeeping.
13. a. Discuss your idea about Queen rearing.
OR
b. Analyze the list of pollen and nectar yielding plants.
14. a. Discuss about Greater wax moth as an enemy of honey bee.
OR
b. Analyze how wasp can be enemies of honey bee with their control?
15. a. Explain the nutritional value and uses of honey.
OR
b. Examine the procedure for extraction of honey.

Z-Z-Z

END